Training Package Details

| Training Package Code: | ICA11 |
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| Training Package Name: | Information and Communications Technology |
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Version Modification History

| Version | Release Date | Comments |
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| 2 | TBA | NSSC endorsement:  Units of competency  Ten new units:   * ICAICT423A Select cloud storage strategies * ICAICT814A Develop cloud computing strategies for a business * ICANWK306A Evaluate characteristics of cloud computing solutions and services * ICANWK419A Identify and use current virtualisation technologies * ICANWK533A Configure and manage advanced virtual computing environments * ICANWK534A Monitor and troubleshoot virtual computing environments * ICANWK535A Install an enterprise virtual computing environment * ICANWK615A Design and configure desktop virtualisation * ICANWK616A Manage security, privacy and compliance of cloud service deployment * ICAPRG604A Create cloud computing services   ISC upgrade:   * Update qualifications to reflect the addition of new units of competency to elective group/s:   + ICA30111 Certificate III in Information, Digital Media and Technology   + ICA40111 Certificate IV in Information Technology   + ICA40211 Certificate IV in Information Technology Support   + ICA40411 Certificate IV in Information Technology Networking   + ICA41011 Certificate IV in Computer Systems Technology   + ICA50111 Diploma of Information Technology   + ICA50311 Diploma of Information Technology Systems Administration   + ICA50411 Diploma of Information Technology Networking   + ICA50511 Diploma of Database Design and Development   + ICA50711 Diploma of Software Development   + ICA60111 Advanced Diploma of Information Technology   + ICA60211 Advanced Diploma of Network Security   + ICA60511 Advanced Diploma of Computer Systems Technology   + ICA70111 Vocational Graduate Certificate in Information Technology and Strategic Management * Update five units to reflect new technology in the cloud virtualisation area:   + ICADBS503B Create a data warehouse   + ICADBS601B Build a data warehouse   + ICADBS603B Determine suitability of database functionality and scalability   + ICANWK525B Configure an enterprise virtual computing environment   + ICANWK527B Manage an enterprise virtual computing environment * Develop two new skill sets:   + Enterprise Server Virtualisation Specialist   + Enterprise Desktop Virtualisation Specialist |
| 1 | July 2011 | Primary release, replacing ICA05 Information and Communications Technology Training Package |

| History |
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| The ICA11 Information and Communications Training Package was released in July 2011. Subsequent industry consultation has identified that since this time advances in technology have seen the expansion of cloud and virtualisation technologies as the cornerstone of many business enterprises.  The development of the ICT cloud computing technologies has resulted in a number of changes to several qualifications in the ICA11 Information and Communications Technology Training Package Version 2.  Two areas that have now been developed ensure that the ICA11 Information and Communications Technology Training Package continues to meet current and future industry needs in the areas of cloud computing conceptualisation, big data and virtualisation technologies. |

| Mapping to Previous Training Package | | | | |
| --- | --- | --- | --- | --- |
| **Mapping of Qualifications Key: E = equivalent, N = not equivalent** | | | | |
| **Qualification code and title ICA11 v2** | **Qualification code and title ICA11 v1** | | **Comments** | **E/N** |
| ICA30111 Certificate III in Information, Digital Media and Technology | ICA30111 Certificate III in Information, Digital Media and Technology | Outcomes deemed equivalent.  ICANWK306A Evaluate characteristics of cloud computing solutions and services and ICANWK419A Identify and use current virtualisation technologies added to Elective Group F. Adjustment to elective choice to increase flexibility. | | E |
| ICA40111 Certificate IV in Information Technology | ICA40111 Certificate IV in Information Technology | Outcomes deemed equivalent.  ICAICT423A Select cloud storage strategies and ICANWK419A Identify and use current virtualisation technologies added to Elective Group A. Adjustment to elective choice to increase flexibility. | | E |
| ICA40211 Certificate IV in Information Technology Support | ICA40211 Certificate IV in Information Technology Support | Outcomes deemed equivalent.  ICAICT423A Select cloud storage strategies and ICANWK419A Identify and use current virtualisation technologies added to Elective Group E. Adjustment to elective choice to increase flexibility. | | E |
| ICA40411 Certificate IV in Information Technology Networking | ICA40411 Certificate IV in Information Technology Networking | Outcomes deemed equivalent.  ICAICT423A Select cloud storage strategies and ICANWK419A Identify and use current virtualisation technologies added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| ICA41011 Certificate IV in Computer Systems Technology | ICA41011 Certificate IV in Computer Systems Technology | Outcomes deemed equivalent.  ICAICT423A Select cloud storage strategies and ICANWK419A Identify and use current virtualisation technologies added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| ICA50111 Diploma of Information Technology | ICA50111 Diploma of Information Technology | Outcomes deemed equivalent.  ICANWK533A Configure and manage advanced virtual computing environments, ICANWK534A Monitor and troubleshoot virtual computing environments and ICANWK615A Design and configure desktop virtualisation added to Elective Group A. Adjustment to elective choice to increase flexibility. | | E |
| ICA50311 Diploma of Information Technology Systems Administration | ICA50311 Diploma of Information Technology Systems Administration | Outcomes deemed equivalent.  ICANWK533A Configure and manage advanced virtual computing environments, ICANWK534A Monitor and troubleshoot virtual computing environments and ICANWK615A Design and configure desktop virtualisation added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| ICA50411 Diploma of Information Technology Networking | ICA50411 Diploma of Information Technology Networking | Outcomes deemed equivalent. ICANWK533A Configure and manage advanced virtual computing environments, ICANWK534A Monitor and troubleshoot virtual computing environments and ICANWK615A Design and configure desktop virtualisation added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| ICA50511 Diploma of Database Design and Development | ICA50511 Diploma of Information Database Design and Development | Outcomes deemed equivalent.  ICAICT423A Select cloud storage strategies added to list of elective units. | | E |
| ICA50711 Diploma of Software Development | ICA50711 Diploma of Software Development | Outcomes deemed equivalent.  Elective unit ICAPRG603A Create cloud computing services replaced with non-equivalent revised unit ICAPRG604A. Adjustment to elective choice to increase flexibility. | | E |
| ICA60111 Advanced Diploma of Information Technology | ICA60111 Advanced Diploma of Information Technology | Outcomes deemed equivalent.  ICANWK616A Manage security, privacy and compliance of cloud service deployment added to Elective Group C. Adjustment to elective choice to increase flexibility. | | E |
| ICA60211 Advanced Diploma of Network Security | ICA60208 Advanced Diploma of Network Security | Outcomes deemed equivalent.  ICANWK615A Design and configure desktop virtualisation and ICANWK616A Manage security, privacy and compliance of cloud service deployment added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| ICA60511 Advanced Diploma of Computer Systems Technology | ICA60511 Advanced Diploma of Computer Systems Technology | Outcomes deemed equivalent.  ICANWK533A Configure and manage advanced virtual computing environments, ICANWK534A Monitor and troubleshoot virtual computing environments, ICANWK615A Design and configure desktop virtualisation, and ICANWK616A Manage security, privacy and compliance of cloud service deployment added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| ICA70111 Vocational Graduate Certificate in Information Technology and Strategic Management | ICA70111 Vocational Graduate Certificate in Information Technology and Strategic Management | Outcomes deemed equivalent. ICAICT814A Develop cloud computing strategies for a business added to list of elective units. Adjustment to elective choice to increase flexibility. | | E |
| NOTE: The equivalence of qualifications reflects a vocational outcome rather than a structural change linked to greater flexibility of the new package qualifications; and removal of entry requirements and prerequisites. | | | | |

| Mapping to Previous Training Package | | | |
| --- | --- | --- | --- |
| **Mapping of units of competency Key: E = equivalent, N = not equivalent** | | | |
| ICA11 v2 Unit code and title | ICA11 v1 Unit code and title | Comments | E/N |
| ICADBS503B Create a data warehouse | ICADBS5034A Create a data warehouse | Revised unit.  Outcomes deemed equivalent.  Added performance criteria under element 1. Added to range statement. A range of minor editorial changes. | E |
| ICADBS601B Build a data warehouse | ICADBS601A Build a data warehouse | Revised unit.  Outcomes deemed equivalent.  Added performance criteria under element 1. Added to range statement. A range of minor editorial changes. | E |
| ICADBS603B Determine suitability of database functionality and scalability | ICADBS603A Determine suitability of database functionality and scalability | Revised unit.  Outcomes deemed equivalent.  Added performance criteria under element 2. Added to range statement. A range of minor editorial changes. | E |
| ICAICT423A Select cloud storage strategies | N/A | New unit |  |
| ICAICT814A Develop cloud computing strategies for a business | N/A | New unit |  |
| ICANWK306A Evaluate characteristics of cloud computing solutions and services | N/A | New unit |  |
| ICANWK419A Identify and use current virtualisation technologies | N/A | New unit |  |
| ICANWK525B Configure an enterprise virtual computing environment | ICANWK525A Configure an enterprise virtual computing environment. | Revised unit.  Outcomes deemed equivalent.  Added performance criteria under elements 1 and 2. Added to range statement. A range of minor editorial changes. | E |
| ICANWK527B Manage an enterprise virtual computing environment | ICANWK527A Manage an enterprise virtual computing environment | Revised unit.  Outcomes deemed equivalent.  Added performance criteria under elements 3 and 4. A range of minor editorial changes. | E |
| ICANWK533A Configure and manage advanced virtual computing environments | N/A | New unit |  |
| ICANWK534A Monitor and troubleshoot virtual computing environments | N/A | New unit |  |
| ICANWK535A Install an enterprise virtual computing environment | ICANWK526A Install an enterprise virtual computing environment | New unit based on ICANWK526A. | N |
| ICANWK615A Design and configure desktop virtualisation | N/A | New unit |  |
| ICANWK616A Manage security, privacy and compliance of cloud service deployment | N/A | New unit |  |
| ICAPRG604A Create cloud computing services | ICAPRG603A Create cloud computing services | New unit based on ICAPRG603A. | N |

| Historical and General Information |
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| ICA11 Information and Communications Technology Training Package History  Over the past few years, ICT industry coverage has expanded to include the convergence of technologies across a number of industry areas, including networking, web development, software development, database integration, sustainability, application implementation, telecommunications, digital and interactive games and digital media technologies.  The ICA11 Training Package review project identified a number of new and emerging technology trends in the industry that have occurred since the ICA05 Information and Communications Technology Training Package was developed.  Also, the Federal Government is heavily committed to initiatives, such as the high-speed National Broadband Network (NBN) roll out, the Digital Economy, Digital Education Revolution (DER) computers in schools program, and the implementation of the ‘Green ICT’ sustainability strategy, all of which will impact on the Information and Communications Technology industry.  New technologies  ICT industry coverage includes convergence of technologies across a number of industry areas, including networking, web development, software development, database integration, cloud computing conceptualisation, big data, virtualisation technologies, sustainability, application implementation, telecommunications, digital and interactive games and digital media technologies. |

| Introduction to the Industry |
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| The ICT industry in Australia is estimated to have generated $85-$98 billion in revenue for the year 2008-2009, to have employed some 268,000 people in 2007-2008 and, as of February 2009, to employ a total of 532,500 ICT workers in all industries across Australia. (Source: ABS Labour Market Survey Feb 2009, ICT Industry logistics CIIER 2008 as reported in Australian Computer Society (July 2009). ACS Australian ICT Statistical Compendium 2009. pages 6-7)  ICT employment and occupations fall across all sectors and industries in Australia. Of the total number or people employed in ICT occupations in 2007-2008 (ABS 2008), just over half (54%) actually fell within what can be classified as the ICT industry division.  DEEWR 2007, adjusted by CIIER to compensate for ICT industry sector excision as reported in IBSA eScan report; Allen Consulting Group (April 2009). Environmental Scan 2009. IBSA: Melbourne. p. 35.  ICA11 needs to cater for those seeking a professional career pathway in the ICT industry as well as those seeking the ICT skills to support careers in a myriad of associated industries. It also needs to be acknowledged that information technology and IT workers are spread across many diverse non-ICT industries, with their jobs not recognised in the ICT occupation skills classifications. Indications are that up to 80% of students undertaking ICT qualifications do not progress beyond AQF Certificate III level, but move horizontally with their ICT knowledge and skills into other non-ICT industries.  As with many other sectors, technological convergence is affecting the way people work in the technical industries. The changing nature of the information and communications technology industries over the past decade has resulted in the need to accommodate a variety of changes in the review of ICA11.  The Australian ICT industry has become more of a service industry then a specialised IT focused industry with the result that national ICT career pathways are becoming more vertical than horizontal and are requiring the versatility to incorporate a mix of various ICT skills rather than relying on the historically fixed specialist ICT stream career pathway.  The shift to a more service-focused industry base and the need for flexibility in career pathways for the Australian ICT industry has had a major influence on the development of ICA11. When the ICA Training Package was updated from 1999 to later versions, stand-alone career pathways were created in anticipation of Australia becoming a ‘development house’ for Asia and the local region. These aspirations simply have not eventuated and the feedback and data from the ICA05 Scoping Report indicate that we are now further away than ever from being a globally competitive, development-oriented IT industry. To clarify this position we can analyse, as an example, the career pathway data for specialist programmers which shows a gradual decline in demand over the past decade. This is not to say such jobs do not exist in niche industry areas or regions, but the national career pathways have now blurred and converged across other sectors both in IT and non-IT areas. “Programming” now needs to be augmented with some other skill sets, such as management, games development, web development; “Software Development” with other skill sets such as helpdesk/service centre support. This scenario relating to increasing skills also holds true for many of the other ICT career pathways.  To fully encompass these industry-identified changes, ICA11 has incorporated both a horizontal and vertical approach to ICT career pathway progression. The ICA11 qualifications have been developed to enable a specialist outcome in the key ICT areas combined with the flexibility to incorporate a diverse range of skill sets so as to provide a wider career pathway outcome.  Medium to small business enterprises are becoming more common in the industry. Due to their cost structures and business requirements, these enterprises need graduates with applied general IT skills rather than with a full specialist qualification. While the need to develop specialist pathways is still critically important, ICA11 needs to also offer the flexibility to cater for broader cross-specialisation skill sets and career pathways.  The combination of the above with the most recent initiatives also detailed above, such as NBN, DER, computers in schools, and green and sustainable IT, is creating major growth in the ICT industry in Australia as well as potentially generating a rising demand for both general and niche specialist IT skills. This situation is also causing a blurring of traditional IT job profiles and formal IT occupational boundaries, with the integration of competencies across IT, telecommunications, digital art and 3D rendering, mobile applications development, data storage, games development and entertainment.  As a result, this has created a significant shift to current ICT technologies including a greater application of:   * networks (using wireless for data and voice) and overlay of broadband * IP-based communications, broadcasting, switching and transmission * enhancements to content and network management capabilities * wireless and mobile systems * mesh and cloud networks * green technology requirements * interactive and digital games development * digital media technologies * social web technologies * network security * digital literacy.   Additionally:   * sustainability skills units are embedded in the core or elective groups of each qualification * language, literacy and numeracy skills are described appropriately for all competency outcomes * units of competency covering digital literacy are incorporated at entry level.   The ICA11 Training Package also provides support for movement of skills within and across organisations and sectors. The packaging rules for qualifications are clear and consistent and allow a logical progression of skills development between AQF levels. The Training Package allows for multiple entry points and progression pathways enabling a formal learning progression from AQF 1 through to Advanced Diploma and Vocational Graduate Certificate level.  To increase the flexibility and portability of ICA11 qualifications, units of competency have been imported from the following endorsed Training Packages:   * BSB07 Business Services * CPP07 Property Services * CUF07 Screen and Media * CUS09 Music * CUV11 Visual Arts, Craft and Design * ICP10 Printing and Graphic Arts * ICT10 Integrated Telecommunications. |

| Industry Requirements for Employability Skills |
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| ICA11 Information and Communications Training Package seeks to ensure that industry-endorsed employability skills are explicitly embedded in units of competency. The application of each skill and the level of detail included in each part of the unit will vary according to industry requirements and the nature of the unit of competency.  Employability skills are both explicit and embedded within units of competency. This means that employability skills are:   * embedded in units of competency as part of the other performance requirements that make up the competency as a whole * explicitly described within units of competency to enable Training Package users to identify accurately the performance requirements of each unit with regards to employability skills.   ICA11 Information and Communications Technology Training Package also seeks to ensure that employability skills are well-defined and written into units of competency so that they are apparent, clear and can be delivered and assessed as an essential component of unit work outcomes. |

| Competency Standards - Industry Contextualisation |
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| As indicated elsewhere, RTOs may contextualise units of competency imported from other Training Packages to reflect outcomes relevant to the ICA11 Information and Communications Technology Training Package industry.  The units from the Training Packages detailed above have been imported into these qualifications to support those units which address specific aspects of the ICT industry, such as computer networking and security, project management, small business needs and customer service.  Using ‘BSBSUS501A Develop workplace policy and procedures for sustainability' as an example, RTOs could add the development of policies and procedures in sustainability while formulating planning and design specifications to ICT projects. |

| Examples from this Training Package of employability skills embedded within unit components | |
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| Unit component | Example of embedded employability skill |
| Unit title | Work and communicate effectively in an IT environment |
| Unit descriptor | This unit describes the performance outcomes, skills and knowledge required to work and communicate effectively within organisational policies and governance arrangements using information technology (IT) systems, equipment and software. |
| Element | Use positive and varied communication strategies with ICT clients |
| Performance criteria | Respond appropriately to client and colleague requirements and identify options |
| Range Statement | * Respond appropriately may include:   + answering enquiries promptly and appropriately   + discussing, agreeing and recording supply arrangements with client   + recording details in enterprise system   + using appropriate questioning and active listening techniques to understand client needs and determine support requirements   + using clear, simple and easy to understand language   + ensuring responses are comprehensive. |
| Required Skills and Knowledge | * communication skills to:   + clarify the needs of customers   + deliver required level and quality of customer service   + relate to people from diverse backgrounds and people with diverse abilities   + request advice, receive feedback and work with a team * knowledge:   + current industry-accepted hardware and software products, with broad knowledge of features and capabilities |
| Evidence Guide | Evidence of the ability to:   * process internal and external requests according to organisational policies and requirements * respond promptly to client enquiries and requests from colleagues. |

| Qualification Pathways |
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List of ICA11 Qualifications

| Code | Title |
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| ICA10111 | Certificate I in Information, Digital Media and Technology |
| ICA20111 | Certificate II in Information, Digital Media and Technology |
| ICA30111 | Certificate III in Information, Digital Media and Technology |
| ICA40111 | Certificate IV in Information Technology |
| ICA40211 | Certificate IV in Information Technology Support |
| ICA40311 | Certificate IV in Web-Based Technologies |
| ICA40411 | Certificate IV in Information Technology Networking |
| ICA40511 | Certificate IV in Programming |
| ICA40611 | Certificate IV in Information Technology Testing |
| ICA40711 | Certificate IV in Systems Analysis and Design |
| ICA40811 | Certificate IV in Digital Media Technologies |
| ICA40911 | Certificate IV in Digital and Interactive Games |
| ICA41011 | Certificate IV in Computer Systems Technology |
| ICA50111 | Diploma of Information Technology |
| ICA50211 | Diploma of Digital and Interactive Games |
| ICA50311 | Diploma of Information Technology Systems Administration |
| ICA50411 | Diploma of Information Technology Networking |
| ICA50511 | Diploma of Database Design and Development |
| ICA50611 | Diploma of Website Development |
| ICA50711 | Diploma of Software Development |
| ICA50811 | Diploma of Systems Analysis and Design |
| ICA50911 | Diploma of Digital Media Technologies |
| ICA60111 | Advanced Diploma of Information Technology |
| ICA60211 | Advanced Diploma of Network Security |
| ICA60311 | Advanced Diploma of Information Technology Business Analysis |
| ICA60411 | Advanced Diploma of Information Technology Project Management |
| ICA60511 | Advanced Diploma of Computer Systems Technology |
| ICA70111 | Vocational Graduate Certificate in Information Technology and Strategic Management |
| ICA70211 | Vocational Graduate Certificate in Information Technology Sustainability |

| Whole of Industry Qualification Information |
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| There are 29 qualifications in the Training Package, 28 skill sets and 405 units of competency.  The units of competency cover the following functional areas:   | Function area | Code | Number | | --- | --- | --- | | Database | DBS | 15 | | Digital media technologies | DMT | 4 | | Game development | GAM | 49 | | General ICT | ICT | 87 | | Networking | NWK | 69 | | IT project management | PMG | 11 | | Programming and software development | PRG | 51 | | Systems analysis and design | SAD | 14 | | Systems administration and support | SAS | 58 | | Sustainability | SUS | 3 | | Web | WEB | 44 | | **Total** |  | 405 |   Skill Sets in this Training Package  The following 28 skills sets are in this Training Package.   * Application Development Specialist Skill Set * Basic Application Development Programmer Skill Set * Basic Computer Hardware and System Troubleshooting Skill Set * Basic Web Development Specialist Skill Set * Certified IT Network Enterprise, Security or Server Administrator Skill Set * Certified Network Associate Technology Specialist Skill Set * Certified Network Professional Specialist Skill Set * Certified Network Professional Specialist – Voice Skill Set * Certified Network Professional Specialist – Wireless Skill Set * Certified Networking Technician Skill Set * Certified Security and Architect Specialist Skill Set * Certified Technician or Technology Specialist - Infrastructure Configuration Skill Set * Certified Technology Specialist - Graphical User Interfaces Skill Set * Certified Web Design Specialist Skill Set * Computing and Application Fundamentals Skill Set * Computing Fundamentals Skill Set * Digital Literacy Skill Set * Digital Literacy - eCitizen Skill Set * Enterprise Desktop Virtualisation Specialist Skill Set * Enterprise Server Virtualisation Specialist Skill Set * Hardware Technician Skill Set * Internetworking Systems Coordinator/Administrator Skill Set * Rich Interactive Content Specialist Skill Set * System and Hardware Plus Technician Skill Set * System and Network Plus Technician Skill Set * Virtualisation Specialist Skill Set * Visual Communications Specialist Skill Set * Website Administration Specialist Skill Set   Skill sets are designed to be available to industry to train participants in a particular skill set. They contain units of competency that will be awarded with a Statement of Attainment and are able to be counted towards a qualification. Where possible, skill sets are aligned to a range of vendor training programs that are used as a basis for industry certifications. Users should ensure that they have also read the part of the Training Package that outlines licensing and regulatory requirements.  Application Development Specialist Skill set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as application programmers and software developers. | | Units | ICAPRG501A Apply advanced object-oriented language skills  ICAPRG505A Build advanced user interface  ICAPRG506A Design application architecture  ICAPRG507A Implement security for applications  ICAPRG523A Apply advanced programming skills in another language | | Pathway | This skill set provides credit towards ICA50711 Diploma of Software Development | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a software development specialist. |   Basic Application Development Programmer Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as basic application programmers. | | Units | ICAPRG406A Apply introductory object-oriented language skills  ICAPRG413A Use a library or pre-existing components  ICAPRG414A Apply introductory programming skills in another language  ICAPRG418A Apply intermediate programming skill in another language  ICAPRG527A Apply intermediate object-oriented language skill | | Pathway | This skill set provides credit towards ICA40511 Certificate IV in Programming | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a basic application programmer. |   Basic Computer Hardware and System Troubleshooting Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to trouble shoot basic computer hardware and system problems, and work safely across a variety of industries. | | Units | BSBWHS201A Contribute to health and safety of self and others  ICAICT201A Use computer operating systems and hardware  ICASAS201A Maintain inventories for equipment, software and documentation  ICASAS205A Maintain IT system integrity  ICASAS206A Detect and protect from spam and destructive software  ICASAS207A Protect and secure information assets  ICASAS208A Maintain IT equipment and consumables  ICASAS209A Connect and use a home-based local wireless network | | Pathway | This skill set provides credit towards ICA20111 Certificate II in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and BSB07 Business Services Training Packages meet competency requirements for basic computer hardware and system troubleshooting. |   Basic Web Development Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to develop and maintain a basic website. | | Units | BSBEBU401A Review and maintain a website  ICAWEB302A Build simple websites using commercial programs  ICAWEB403A Transfer content to a website using commercial packages | | Pathway | This skill set provides credit towards ICA30111 Certificate III in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and BSB07 Business Services Training Packages meet competency requirements for skills in developing and maintaining a simple website. |   Certified IT Network Enterprise, Security or Server Administrator Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified IT enterprise, security or server administrators. | | Units | ICANWK406A Install, configure and test network security  ICANWK403A Manage network and data integrity | | Pathway | This skill set provides credit towards ICA40411 Certificate IV in Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in administering security, servers or enterprise networks. |   Certified Network Associate Technology Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified network associate technology specialists. | | Units | ICANWK529A Install and manage complex ICT networks  ICANWK506A Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network  ICANWK507A Install, operate and troubleshoot medium enterprise routers  ICANWK508A Install, operate and troubleshoot medium enterprise switches | | Pathway | This skill set provides credit towards ICA50411 Diploma of Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for associate level skills in networking. |   Certified Network Professional Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified network professional specialists. | | Units | ICANWK603A Plan, configure and test advanced internetwork routing solutions  ICANWK604A Plan and configure advanced internetwork switching solutions  ICANWK612A Plan and manage troubleshooting advanced integrated IP networks | | Pathway | This skill set provides credit towards ICA60211 Advanced Diploma of Network Security | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a network professional. |   Certified Network Professional Specialist - Voice Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified network professional specialists – voice. | | Units | ICANWK605A Design and configure secure integrated wireless systems  ICANWK606A Implement voice applications over secure wireless networks  ICANWK607A Design and implement wireless network security | | Pathway | This skill set provides credit towards ICA60211 Advanced Diploma of Network Security | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a network professional specialising in voice networks. |   Certified Network Professional Specialist - Wireless Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified network professional specialists – wireless. | | Units | ICANWK605A Design and configure secure integrated wireless systems  ICANWK606A Implement voice applications over secure wireless networks  ICANWK607A Design and implement wireless network security | | Pathway | This skill set provides credit towards ICA60211 Advanced Diploma of Network Security | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a network professional specialising in wireless networks. |   Certified Networking Technician Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified network technicians. | | Units | ICANWK404A Install, operate and troubleshoot a small enterprise branch network  ICANWK405A Build a small wireless local area network  ICTTEN4199A Install, configure and test a router | | Pathway | This skill set provides credit towards ICA40411 Certificate IV in Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and ICT10 Integrated Telecommunications Training Packages meet competency requirements for technical skills in networks. |   Certified Security and Architect Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified security and architect technology specialists. | | Units | ICANWK529A Install and manage complex ICT networks  ICANWK503A Install and maintain valid authentication processes  ICANWK511A Manage network security | | Pathway | This skill set provides credit towards ICA50411 Diploma of Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working with security and network architecture. |   Certified Technician or Technology Specialist - Infrastructure Configuration Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as certified infrastructure configuration technicians or technology specialists. | | Units | ICANWK505A Design, build and test a network server  ICANWK503A Install and maintain valid authentication processes | | Pathway | This skill set provides credit towards ICA50411 Diploma of Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in configuring infrastructure. |   Certified Technology Specialist - Graphical User Interfaces Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as graphical user interface (GUI) certified technology specialists. | | Units | ICANWK403A Manage network and data integrity  ICANWK408A Configure a desktop environment | | Pathway | This skill set provides credit towards ICA40411Certificate IV in Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in developing and maintaining GUIs. |   Certified Web Design Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as website designers. | | Units | ICAWEB409A Develop cascading style sheets  ICAWEB410A Apply web authoring tool to convert client data for websites  ICAWEB411A Produce basic client-side script for dynamic web pages  ICAWEB412A Produce interactive web animation  ICAWEB414A Design simple web page layouts | | Pathway | This skill set provides credit towards ICA40311 Certificate IV in Web-Based Technologies | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a website designer. |   Computing and Application Fundamentals Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to use basic information and communications technology (ICT) and application software and work safely in any industry. | | Units | BSBWHS201A Contribute to health and safety of self and others  ICAICT201A Use computer operating systems and hardware  ICAICT203A Operate application software packages  ICAICT210A Operate database applications | | Pathway | This skill set provides credit towards ICA20111 Certificate II in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and BSB07 Business Services Training Packages meet competency requirements for basic use of computers and applications. |   Computing Fundamentals Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to use basic information and communications technology (ICT) skills and work safely in any industry. | | Units | BSBWHS201A Contribute to health and safety of self and others  ICAICT201A Use computer operating systems and hardware  ICAICT203A Operate application software packages  ICAWEB201A Use social media tools for collaboration and engagement | | Pathway | This skill set provides credit towards ICA20111 Certificate II in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and BSB07 Business Services Training Packages meet basic competency requirements for basic ICT skills. |   Digital Literacy Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to gain digital literacy skills in the use of a personal computer, software applications and digital devices. | | Units | ICAICT101A Operate a personal computer  ICAICT102A Operate word-processing applications  ICAICT103A Use, communicate and search securely on the internet  ICAICT105A Operate spreadsheet applications  ICAICT106A Operate presentation packages | | Pathway | This skill set provides credit towards ICA10111 Certificate I in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for digital literacy. |   Digital Literacy - eCitizen Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to gain basic digital literacy skills in using a personal computer. | | Units | ICAICT101A Operate a personal computer  ICAICT102A Operate word-processing applications  ICAICT103A Use, communicate and search securely on the internet | | Pathway | This skill set provides credit towards ICA10111 Certificate I in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for using a personal computer. |   **Enterprise Desktop Virtualisation Specialist Skill Set**   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to work as certified professional desktop virtualisation technology specialists. | | Units | ICAICT609A Lead the evaluation and implementation of current industry-specific technologies  ICANWK615A Design and configure desktop virtualisation  ICANWK616A Manage security, privacy and compliance of cloud service deployment  ICAPRG602A Manage the development of technical solutions from business specifications | | Pathway | This skill set provides credit towards ICA60211 Advanced Diploma of Network Security. | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a network professional specialising in desktop virtualisation technology. |   **Enterprise Server Virtualisation Specialist Skill Set**   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to work as certified professional server virtualisation technology specialists. | | Units | ICANWK524A Install and configure network access storage devices  ICANWK525B Configure an enterprise virtual computing environment  ICANWK527B Manage an enterprise virtual computing environment  ICANWK533A Configure and manage advanced virtual computing environments  ICANWK534A Monitor and troubleshoot virtual computing environments  ICANWK535A Install an enterprise virtual computing environment | | Pathway | This skill set provides credit towards ICA50411 Diploma of Information Technology Networking. | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a network professional specialising in virtualisation technology. |   Hardware Technician Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as hardware technicians, providing support in a range of ICT work areas and activities. | | Units | ICAICT302A Install and optimise operating system software  ICAICT303A Connect internal hardware components  ICASAS307A Install, configure and secure a small office home office network  ICASAS301A Run standard diagnostic tests  ICASAS305A Provide IT advice to clients  ICASAS306A Maintain equipment and software | | Pathway | This skill set provides credit towards ICA30111 Certificate III in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for support skills in hardware, software, operating systems and networks. |   Internetworking Systems Coordinator/Administrator Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as an internetworking systems administrator or coordinator. | | Units | ICANWK603A Plan, configure and test advanced internetwork routing solutions  ICANWK605A Design and configure secure integrated wireless systems  ICANWK610A Design and build integrated VoIP networks  ICANWK611A Configure call processing network elements for secure VoIP networks  ICANWK612A Plan and manage troubleshooting advanced integrated IP networks | | Pathway | This skill set provides credit towards ICA60511 Advanced Diploma of Computer Systems Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as an internetworking coordinator or administrator. |   Rich Interactive Content Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work with interactive digital media content. | | Units | CUFDIG304A Create visual design components  ICAGAM301A Apply simple modelling techniques  ICAGAM302A Design and apply simple textures to digital art | | Pathway | This skill set provides credit towards ICA30111 Certificate III in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and CUF07 Screen and Media Training Packages meet competency requirements for skills in interactive digital media. |   System and Hardware Plus Technician Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as a computer system and hardware technician. | | Units | BSBSUS301A Implement and monitor environmentally sustainable work practices  ICASAS307A Install, configure and secure a small office home office network  ICAICT421A Connect, maintain and configure hardware components  ICASAS425A Configure and troubleshoot operating system software  ICASAS426A Locate and troubleshoot IT equipment, system and software faults  ICAICT401A Determine and confirm client business requirements | | Pathway | This skill set provides credit towards ICA40211 Certificate IV in Information Technology Support | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and BSB07 Business Services Training Packages meet competency requirements for support skills in working as a computer system and hardware technician. |   System and Network Plus Technician Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as a computer system and network support technician. | | Units | ICASAS307A Install, configure and secure a small office home office network  ICANWK401A Install and manage a server  ICANWK404A Install, operate and troubleshoot a small enterprise branch network  ICANWK406A Install, configure and test network security | | Pathway | This skill set provides credit towards ICA40211 Certificate IV in Information Technology Support | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a network technician. |   Virtualisation Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work in the area of hardware, software and system virtualisation. | | Units | ICANWK525B Configure an enterprise virtual computing environment  ICANWK527B Manage an enterprise virtual computing environment  ICANWK535A Install an enterprise virtual computing environment | | Pathway | This skill set provides credit towards ICA50411 Diploma of Information Technology Networking | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in in developing hardware, software and system virtual networks. |   Visual Communications Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons wanting to develop visual content for the web. | | Units | CUFDIG301A Prepare video assets  CUFDIG304A Create visual design components  ICAWEB303A Produce digital images for the web | | Pathway | This skill set provides credit towards ICA30111 Certificate III in Information, Digital Media and Technology | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology and CUF07 Screen and Media Training Packages meet competency requirements for skills in developing visual components for websites. |   Website Administration Specialist Skill Set   |  |  | | --- | --- | | Target Group | This skill set is for persons who are able to work as website administrators. | | Units | ICANWK409A Create scripts for networking  ICAWEB404A Maintain website performance  ICAWEB405A Monitor traffic and compile website traffic reports  ICAWEB406A Create website testing procedures  ICAWEB407A Conduct operational acceptance tests of websites  ICAWEB408A Ensure basic website security | | Pathway | This skill set provides credit towards ICA40311 Certificate IV in Web-Based Technologies | | Suggested form of words for Statement of Attainment | These units of competency from ICA11 Information and Communications Technology Training Package meet competency requirements for skills in working as a website administrator. |   Qualifications in this Training Package  Packaging rules for qualifications are clear and consistent and allow a logical progression of skills development between AQF levels. The packaging allows for multiple entry points and progression pathways enabling progression from AQF I through to Advanced Diploma and through to Vocational Graduate Certificate level.  There is an articulation pathway with a possible Year 12 entry requirement:   * ICA41011 Certificate IV in Computer Systems Technology * ICA60511 Advanced Diploma of Computer Systems Technology.   The judicious packaging of core and elective units represents great flexibility for participants to cross over from stream to stream with minimal disruptions. This has been possible by minimising the number of core units and allowing greater choice of elective units.  Following the Federal Government announcement on the inclusion of sustainability in all qualifications for 2010, sustainability content has been included in the core of the majority or qualifications and is available in the elective units in the remainder of the qualifications.  The importation of units from Training Packages provides clear support to the information and communications technology qualifications in the area of sustainability, project management, digital media technologies and IT convergence networks. |

List of ALL units in ICA11 Training Package

| Unit code | Unit title | Volume |
| --- | --- | --- |
| ICADBS401A | Identify physical database requirements | 1 |
| ICADBS402A | Complete database backup and restore | 1 |
| ICADBS403A | Create basic databases | 1 |
| ICADBS404A | Identify and resolve common database performance problems | 1 |
| ICADBS407A | Monitor physical database implementation | 1 |
| ICADBS408A | Link an RFID system to a database | 1 |
| ICADBS409A | Monitor and administer a database | 1 |
| ICADBS412A | Build a database | 1 |
| ICADBS501A | Monitor and improve knowledge management system | 1 |
| ICADBS502A | Design a database | 1 |
| ICADBS503B | Create a data warehouse | 1 |
| ICADBS504A | Integrate database with a website | 1 |
| ICADBS601B | Build a data warehouse | 1 |
| ICADBS602A | Develop a knowledge management strategy | 1 |
| ICADBS603B | Determine suitability of database functionality and scalability | 1 |
| ICADMT401A | Create visual design components for digital media | 1 |
| ICADMT402A | Produce interactive animation | 1 |
| ICADMT403A | Produce and edit digital images | 1 |
| ICADMT501A | Incorporate and edit digital video | 1 |
| ICAGAM301A | Apply simple modelling techniques | 1 |
| ICAGAM302A | Design and apply simple textures to digital art | 1 |
| ICAGAM303A | Review and apply the principles of animation | 1 |
| ICAGAM401A | Produce an interactive game | 1 |
| ICAGAM402A | Identify and apply principles of games design and game playing | 1 |
| ICAGAM403A | Create design documents for interactive games | 1 |
| ICAGAM404A | Apply artificial intelligence in game development | 1 |
| ICAGAM405A | Write story and content for digital games | 1 |
| ICAGAM406A | Create visual design components for interactive games | 1 |
| ICAGAM407A | Write scripts for interactive games | 1 |
| ICAGAM408A | Use 3-D animation interface and toolsets | 1 |
| ICAGAM409A | Create 3-D characters for interactive games | 1 |
| ICAGAM410A | Develop 3-D components for interactive games | 1 |
| ICAGAM412A | Design interactive media | 1 |
| ICAGAM413A | Design and create 3-D digital models | 1 |
| ICAGAM414A | Create audio for digital games | 1 |
| ICAGAM415A | Develop simple environments for 3-D games | 1 |
| ICAGAM416A | Prepare and complete image rendering processes | 1 |
| ICAGAM417A | Apply digital effects to interactive products | 1 |
| ICAGAM418A | Use simple modelling for animation | 1 |
| ICAGAM419A | Build a database to support a computer game | 1 |
| ICAGAM501A | Create design concepts for digital games and 3-D media | 1 |
| ICAGAM503A | Create a complex 3-D interactive computer game | 1 |
| ICAGAM504A | Manage interactive media production | 1 |
| ICAGAM506A | Create complex code for mobile game devices | 1 |
| ICAGAM507A | Develop intermediate 3-D software for games and interactive media | 1 |
| ICAGAM508A | Develop complex 3-D software for games and interactive media | 1 |
| ICAGAM509A | Design interactive 3-D applications for scientific and mathematical modelling | 1 |
| ICAGAM510A | Prepare games for different platforms and delivery modes | 1 |
| ICAGAM511A | Manage testing of games and interactive media | 1 |
| ICAGAM512A | Create and implement designs for a 3-D games environment | 1 |
| ICAGAM514A | Design and create models for a 3-D and digital effects environment | 1 |
| ICAGAM515A | Design and create advanced particles, fluids and bodies for 3-D digital effects | 1 |
| ICAGAM516A | Animate a 3-D character for digital games | 1 |
| ICAGAM517A | Produce a digital animation sequence | 1 |
| ICAGAM518A | Animate physical attributes of models and elements | 1 |
| ICAGAM519A | Manage technical art and rigging in 3-D animation | 1 |
| ICAGAM520A | Create and combine 3-D digital games and components | 1 |
| ICAGAM521A | Create interactive 3-D environments for digital games | 1 |
| ICAGAM522A | Complete digital editing for the 3-D and digital effects environment | 1 |
| ICAGAM523A | Collaborate in the design of 3-D game levels and environments | 1 |
| ICAGAM524A | Integrate multiple data sources into interactive 3-D environments | 1 |
| ICAGAM525A | Apply digital texturing for the 3-D environment in digital games | 1 |
| ICAGAM526A | Create complex 3-D characters for games | 1 |
| ICAGAM527A | Integrate database with online game | 1 |
| ICAGAM528A | Create games for mobile devices | 1 |
| ICAGAM529A | Analyse business opportunities in the digital games environment | 1 |
| ICAGAM530A | Develop and implement physics in a 3-D digital game | 1 |
| ICAGAM531A | Complete compositing to create elements for the 3-D and digital effects environment | 1 |
| ICAICT101A | Operate a personal computer | 1 |
| ICAICT102A | Operate word-processing applications | 1 |
| ICAICT103A | Use, communicate and search securely on the internet | 1 |
| ICAICT104A | Use digital devices | 1 |
| ICAICT105A | Operate spreadsheet applications | 1 |
| ICAICT106A | Operate presentation packages | 1 |
| ICAICT107A | Use personal productivity tools | 1 |
| ICAICT108A | Use digital literacy skills to access the internet | 1 |
| ICAICT201A | Use computer operating systems and hardware | 1 |
| ICAICT202A | Work and communicate effectively in an IT environment | 1 |
| ICAICT203A | Operate application software packages | 1 |
| ICAICT204A | Operate a digital media technology package | 1 |
| ICAICT205A | Design basic organisational documents using computing packages | 1 |
| ICAICT206A | Install software applications | 1 |
| ICAICT207A | Integrate commercial computing packages | 1 |
| ICAICT208A | Operate accounting applications | 1 |
| ICAICT209A | Interact with ICT clients | 1 |
| ICAICT210A | Operate database applications | 1 |
| ICAICT211A | Identify and use basic current industry-specific technologies | 1 |
| ICAICT212A | Incorporate Indigenous needs and perspectives into IT environment | 1 |
| ICAICT301A | Create user documentation | 1 |
| ICAICT302A | Install and optimise operating system software | 1 |
| ICAICT303A | Connect internal hardware components | 1 |
| ICAICT304A | Implement system software changes | 1 |
| ICAICT305A | Identify and use current industry-specific technologies | 1 |
| ICAICT306A | Migrate to new technology | 1 |
| ICAICT307A | Customise packaged software applications for clients | 1 |
| ICAICT308A | Use advanced features of computer applications | 1 |
| ICAICT401A | Determine and confirm client business requirements | 1 |
| ICAICT402A | Determine project specifications and secure client agreement | 1 |
| ICAICT403A | Apply software development methodologies | 1 |
| ICAICT404A | Use online learning tools | 1 |
| ICAICT405A | Develop detailed technical design | 1 |
| ICAICT406A | Build a graphical user interface | 1 |
| ICAICT407A | Maintain website information standards | 1 |
| ICAICT408A | Create technical documentation | 1 |
| ICAICT409A | Develop macros and templates for clients using standard products | 1 |
| ICAICT410A | Conduct post-implementation IT system reviews | 1 |
| ICAICT411A | Select and employ software and hardware testing tools | 1 |
| ICAICT412A | Coordinate and maintain IT work teams | 1 |
| ICAICT413A | Relate to clients on a business level | 1 |
| ICAICT415A | Provide one-to-one instruction | 1 |
| ICAICT416A | Contribute to the development of strategic plans | 1 |
| ICAICT417A | Identify, evaluate and apply current industry-specific technologies to meet industry standards | 1 |
| ICAICT418A | Contribute to copyright, ethics and privacy in an IT environment | 1 |
| ICAICT419A | Work effectively in the digital media industry | 1 |
| ICAICT420A | Develop client user interface | 1 |
| ICAICT421A | Connect, maintain and configure hardware components | 1 |
| ICAICT422A | Participate in IT services | 1 |
| ICAICT423A | Select cloud storage strategies | 1 |
| ICAICT501A | Research and review hardware technology options for organisations | 1 |
| ICAICT502A | Develop detailed component specifications from project specifications | 1 |
| ICAICT503A | Validate quality and completeness of system design specifications | 1 |
| ICAICT504A | Confirm transition strategy for a new system | 1 |
| ICAICT505A | Determine acceptable developers for projects | 1 |
| ICAICT506A | Implement process re-engineering strategies | 1 |
| ICAICT507A | Select new technology models for business | 1 |
| ICAICT508A | Evaluate vendor products and equipment | 1 |
| ICAICT509A | Gather data to identify business requirements | 1 |
| ICAICT510A | Determine appropriate IT strategies and solutions | 1 |
| ICAICT511A | Match IT needs with the strategic direction of the enterprise | 1 |
| ICAICT512A | Plan process re-engineering strategies for business | 1 |
| ICAICT514A | Identify and manage the implementation of current industry-specific technologies | 1 |
| ICAICT515A | Verify client business requirements | 1 |
| ICAICT601A | Develop IT strategic and action plans | 1 |
| ICAICT602A | Develop contracts and manage contracted performance | 1 |
| ICAICT603A | Manage the use of appropriate development methodologies | 1 |
| ICAICT604A | Identify and implement business innovation | 1 |
| ICAICT605A | Implement a knowledge management strategy | 1 |
| ICAICT606A | Develop communities of practice | 1 |
| ICAICT608A | Interact with clients on a business level | 1 |
| ICAICT609A | Lead the evaluation and implementation of current industry-specific technologies | 1 |
| ICAICT610A | Manage copyright, ethics and privacy in an IT environment | 1 |
| ICAICT701A | Lead research into identifying new marketplace opportunities | 1 |
| ICAICT702A | Direct ICT services | 1 |
| ICAICT703A | Endorse business plan components for a new initiative | 1 |
| ICAICT704A | Direct ICT in a supply chain | 1 |
| ICAICT705A | Direct ICT procurement | 1 |
| ICAICT706A | Direct outsourced ICT services | 1 |
| ICAICT707A | Direct research and business response to new ICT technology | 1 |
| ICAICT708A | Direct the development of a knowledge management strategy for a business | 1 |
| ICAICT709A | Facilitate business analysis | 1 |
| ICAICT710A | Synchronise IT projects | 1 |
| ICAICT711A | Manage an information architecture project | 1 |
| ICAICT712A | Develop a business intelligence framework | 1 |
| ICAICT713A | Manage IT services | 1 |
| ICAICT814A | Develop cloud computing strategies for a business | 1 |
| ICANWK301A | Provide network systems administration | 1 |
| ICANWK302A | Determine and action network problems | 1 |
| ICANWK303A | Configure and administer a network operating system | 1 |
| ICANWK304A | Administer network peripherals | 1 |
| ICANWK305A | Install and manage network protocols | 1 |
| ICANWK306A | Evaluate characteristics of cloud computing solutions and services | 1 |
| ICANWK401A | Install and manage a server | 1 |
| ICANWK402A | Install and configure virtual machines for sustainable ICT | 1 |
| ICANWK403A | Manage network and data integrity | 1 |
| ICANWK404A | Install, operate and troubleshoot a small enterprise branch network | 1 |
| ICANWK405A | Build a small wireless local area network | 1 |
| ICANWK406A | Install, configure and test network security | 1 |
| ICANWK407A | Install and configure client-server applications and services | 1 |
| ICANWK408A | Configure a desktop environment | 1 |
| ICANWK409A | Create scripts for networking | 1 |
| ICANWK410A | Install hardware to a network | 1 |
| ICANWK411A | Deploy software to networked computers | 1 |
| ICANWK412A | Create network documentation | 1 |
| ICANWK414A | Create a common gateway interface script | 1 |
| ICANWK416A | Build security into virtual private networks | 1 |
| ICANWK417A | Build an enterprise wireless network | 1 |
| ICANWK418A | Implement backbone technologies in a local area network | 1 |
| ICANWK419A | Identify and use current virtualisation technologies | 1 |
| ICANWK501A | Plan, implement and test enterprise communication solutions | 1 |
| ICANWK502A | Implement secure encryption technologies | 1 |
| ICANWK503A | Install and maintain valid authentication processes | 1 |
| ICANWK504A | Design and implement an integrated server solution | 1 |
| ICANWK505A | Design, build and test a network server | 1 |
| ICANWK506A | Configure, verify and troubleshoot WAN links and IP services in a medium enterprise network | 1 |
| ICANWK507A | Install, operate and troubleshoot medium enterprise routers | 1 |
| ICANWK508A | Install, operate and troubleshoot medium enterprise switches | 1 |
| ICANWK509A | Design and implement a security perimeter for ICT networks | 1 |
| ICANWK510A | Develop, implement and evaluate system and application security | 1 |
| ICANWK511A | Manage network security | 1 |
| ICANWK513A | Manage system security | 1 |
| ICANWK514A | Model preferred system solutions | 1 |
| ICANWK515A | Develop configuration management protocols | 1 |
| ICANWK516A | Determine best-fit topology for a local network | 1 |
| ICANWK517A | Determine best-fit topology for a wide area network | 1 |
| ICANWK518A | Design an enterprise wireless local area network | 1 |
| ICANWK519A | Design an IT security framework | 1 |
| ICANWK520A | Design IT system security controls | 1 |
| ICANWK521A | Install, configure and test a payment gateway | 1 |
| ICANWK522A | Build decks using wireless markup language | 1 |
| ICANWK524A | Install and configure network access storage devices | 1 |
| ICANWK525B | Configure an enterprise virtual computing environment | 1 |
| ICANWK527B | Manage an enterprise virtual computing environment | 1 |
| ICANWK529A | Install and manage complex ICT networks | 1 |
| ICANWK531A | Configure an internet gateway | 1 |
| ICANWK532A | Identify and resolve network problems | 1 |
| ICANWK533A | Configure and manage advanced virtual computing environments | 1 |
| ICANWK534A | Monitor and troubleshoot virtual computing environments | 1 |
| ICANWK535A | Install an enterprise virtual computing environment | 1 |
| ICANWK601A | Design and implement a security system | 1 |
| ICANWK602A | Plan, configure and test advanced server based security | 1 |
| ICANWK603A | Plan, configure and test advanced internetwork routing solutions | 1 |
| ICANWK604A | Plan and configure advanced internetwork switching solutions | 1 |
| ICANWK605A | Design and configure secure integrated wireless systems | 1 |
| ICANWK606A | Implement voice applications over secure wireless networks | 1 |
| ICANWK607A | Design and implement wireless network security | 1 |
| ICANWK608A | Configure network devices for a secure network infrastructure | 1 |
| ICANWK609A | Configure and manage intrusion prevention system on network sensors | 1 |
| ICANWK610A | Design and build integrated VoIP networks | 1 |
| ICANWK611A | Configure call processing network elements for secure VoIP networks | 1 |
| ICANWK612A | Plan and manage troubleshooting advanced integrated IP networks | 1 |
| ICANWK613A | Develop plans to manage structured troubleshooting process of enterprise networks | 1 |
| ICANWK614A | Manage IT security | 1 |
| ICANWK615A | Design and configure desktop virtualisation | 1 |
| ICANWK616A | Manage security, privacy and compliance of cloud service deployment | 1 |
| ICAPMG401A | Support small scale IT projects | 1 |
| ICAPMG501A | Manage IT projects | 1 |
| ICAPMG601A | Establish IT project governance | 1 |
| ICAPMG602A | Manage IT project initiation | 1 |
| ICAPMG603A | Manage IT project planning | 1 |
| ICAPMG604A | Manage IT project delivery | 1 |
| ICAPMG605A | Manage IT project closure | 1 |
| ICAPMG606A | Manage IT project quality | 1 |
| ICAPMG607A | Manage and control IT project risks | 1 |
| ICAPMG608A | Manage IT project systems implementation | 1 |
| ICAPMG609A | Plan and direct complex IT projects | 1 |
| ICAPRG301A | Apply introductory programming techniques | 1 |
| ICAPRG401A | Maintain open-source code programs | 1 |
| ICAPRG402A | Apply query language | 1 |
| ICAPRG403A | Develop data-driven applications | 1 |
| ICAPRG404A | Test applications | 1 |
| ICAPRG405A | Automate processes | 1 |
| ICAPRG406A | Apply introductory object-oriented language skills | 1 |
| ICAPRG407A | Write script for software applications | 1 |
| ICAPRG409A | Develop mobile applications | 1 |
| ICAPRG410A | Build a user interface | 1 |
| ICAPRG412A | Configure and maintain databases | 1 |
| ICAPRG413A | Use a library or pre-existing components | 1 |
| ICAPRG414A | Apply introductory programming skills in another language | 1 |
| ICAPRG415A | Apply skills in object-oriented design | 1 |
| ICAPRG416A | Manage a software component reuse library | 1 |
| ICAPRG417A | Apply mathematical techniques for software development | 1 |
| ICAPRG418A | Apply intermediate programming skills in another language | 1 |
| ICAPRG419A | Analyse software requirements | 1 |
| ICAPRG425A | Use structured query language | 1 |
| ICAPRG426A | Prepare software development review | 1 |
| ICAPRG427A | Use XML effectively | 1 |
| ICAPRG428A | Use regular expressions in programming languages | 1 |
| ICAPRG501A | Apply advanced object-oriented language skills | 1 |
| ICAPRG502A | Manage a project using software management tools | 1 |
| ICAPRG503A | Debug and monitor applications | 1 |
| ICAPRG504A | Deploy an application to a production environment | 1 |
| ICAPRG505A | Build advanced user interface | 1 |
| ICAPRG506A | Design application architecture | 1 |
| ICAPRG507A | Implement security for applications | 1 |
| ICAPRG508A | Create mashups | 1 |
| ICAPRG509A | Build using rapid application development | 1 |
| ICAPRG510A | Maintain custom software | 1 |
| ICAPRG511A | Monitor and support data conversion to new IT system | 1 |
| ICAPRG512A | Prepare for the build phase of an IT system | 1 |
| ICAPRG513A | Coordinate the build phase of an IT system | 1 |
| ICAPRG514A | Prepare for software development using rapid application development | 1 |
| ICAPRG515A | Review developed software | 1 |
| ICAPRG516A | Develop integration blueprint for IT systems | 1 |
| ICAPRG517A | Install, test and evaluate pilot version of IT system | 1 |
| ICAPRG518A | Monitor the system pilot | 1 |
| ICAPRG520A | Validate an application design against specifications | 1 |
| ICAPRG523A | Apply advanced programming skills in another language | 1 |
| ICAPRG524A | Develop high-level object-oriented class specifications | 1 |
| ICAPRG525A | Build Java applets | 1 |
| ICAPRG526A | Maintain functionality of legacy code programs | 1 |
| ICAPRG527A | Apply intermediate object-oriented language skills | 1 |
| ICAPRG528A | Perform IT data conversion | 1 |
| ICAPRG529A | Apply testing techniques for software development | 1 |
| ICAPRG601A | Develop advanced mobile multi-touch applications | 1 |
| ICAPRG602A | Manage the development of technical solutions from business specifications | 1 |
| ICAPRG604A | Create cloud computing services | 1 |
| ICASAD401A | Develop and present feasibility reports | 1 |
| ICASAD501A | Model data objects | 1 |
| ICASAD502A | Model data processes | 1 |
| ICASAD503A | Minimise risk of new technologies to business solutions | 1 |
| ICASAD504A | Implement quality assurance processes for business solutions | 1 |
| ICASAD505A | Develop technical requirements for business solutions | 1 |
| ICASAD506A | Produce a feasibility report | 1 |
| ICASAD601A | Perform IT-focused enterprise analysis | 1 |
| ICASAD602A | Conduct knowledge audits | 1 |
| ICASAD603A | Plan and monitor business analysis activities in an IT environment | 1 |
| ICASAD604A | Manage and communicate IT solutions | 1 |
| ICASAD605A | Elicit IT requirements | 1 |
| ICASAD606A | Analyse stakeholder requirements | 1 |
| ICASAD607A | Manage assessment and validation of IT solutions | 1 |
| ICASAS201A | Maintain inventories for equipment, software and documentation | 1 |
| ICASAS202A | Apply problem-solving techniques to routine IT malfunctions | 1 |
| ICASAS203A | Connect hardware peripherals | 1 |
| ICASAS204A | Record client support requirements | 1 |
| ICASAS205A | Maintain IT system integrity | 1 |
| ICASAS206A | Detect and protect from spam and destructive software | 1 |
| ICASAS207A | Protect and secure information assets | 1 |
| ICASAS208A | Maintain IT equipment and consumables | 1 |
| ICASAS209A | Connect and use a home-based local wireless network | 1 |
| ICASAS301A | Run standard diagnostic tests | 1 |
| ICASAS303A | Care for computer hardware | 1 |
| ICASAS304A | Provide basic system administration | 1 |
| ICASAS305A | Provide IT advice to clients | 1 |
| ICASAS306A | Maintain equipment and software | 1 |
| ICASAS307A | Install, configure and secure a small office home office network | 1 |
| ICASAS401A | Perform unit test for a class | 1 |
| ICASAS402A | Implement configuration management strategies | 1 |
| ICASAS403A | Review site environmental factors prior to IT system implementation | 1 |
| ICASAS404A | Acquire IT system components | 1 |
| ICASAS405A | Identify and evaluate IT industry vendor technologies | 1 |
| ICASAS406A | Implement and hand over system components | 1 |
| ICASAS407A | Conduct pre-installation audit for software installation | 1 |
| ICASAS408A | Complete data transition in data migration process | 1 |
| ICASAS409A | Manage risks involving ICT systems and technology | 1 |
| ICASAS410A | Identify and resolve client IT problems | 1 |
| ICASAS411A | Assist with policy development for client support procedures | 1 |
| ICASAS412A | Action change requests | 1 |
| ICASAS413A | Manage resolution of system faults on a live system | 1 |
| ICASAS414A | Evaluate system status | 1 |
| ICASAS415A | Optimise IT system performance | 1 |
| ICASAS416A | Implement maintenance procedures | 1 |
| ICASAS417A | Undertake IT system capacity planning | 1 |
| ICASAS418A | Monitor and administer security of an IT system | 1 |
| ICASAS419A | Support system software | 1 |
| ICASAS420A | Provide first-level remote help-desk support | 1 |
| ICASAS421A | Support users and troubleshoot desktop applications | 1 |
| ICASAS422A | Scope implementation requirements | 1 |
| ICASAS424A | Support different operating systems | 1 |
| ICASAS425A | Configure and troubleshoot operating system software | 1 |
| ICASAS426A | Locate and troubleshoot IT equipment, system and software faults | 1 |
| ICASAS501A | Develop, implement and evaluate an incident response plan | 1 |
| ICASAS502A | Establish and maintain client user liaison | 1 |
| ICASAS503A | Perform systems tests | 1 |
| ICASAS504A | Develop and conduct client acceptance test | 1 |
| ICASAS505A | Review and update disaster recovery and contingency plans | 1 |
| ICASAS506A | Update IT system operational procedures | 1 |
| ICASAS507A | Implement and evaluate systems for regulatory and standards compliance | 1 |
| ICASAS509A | Provide client IT support services | 1 |
| ICASAS510A | Review and develop IT maintenance strategy | 1 |
| ICASAS511A | Prioritise IT change requests | 1 |
| ICASAS512A | Review and manage delivery of maintenance services | 1 |
| ICASAS513A | Develop detailed test plans | 1 |
| ICASAS514A | Perform integration tests | 1 |
| ICASAS515A | Manage the testing process | 1 |
| ICASAS516A | Perform stress and load tests on integrated platforms | 1 |
| ICASAS517A | Use network tools | 1 |
| ICASAS518A | Install and upgrade operating systems | 1 |
| ICASAS601A | Implement change-management processes | 1 |
| ICASUS701A | Plan and manage virtualisation for IT sustainability | 1 |
| ICASUS702A | Conduct a business case study for integrating sustainability in IT planning and design projects | 1 |
| ICASUS703A | Research strategies using SAP solutions for sustainable economic and environmental outcomes | 1 |
| ICAWEB201A | Use social media tools for collaboration and engagement | 1 |
| ICAWEB301A | Create a simple markup language document | 1 |
| ICAWEB302A | Build simple websites using commercial programs | 1 |
| ICAWEB303A | Produce digital images for the web | 1 |
| ICAWEB401A | Design a website to meet technical requirements | 1 |
| ICAWEB402A | Confirm accessibility of websites for people with special needs | 1 |
| ICAWEB403A | Transfer content to a website using commercial packages | 1 |
| ICAWEB404A | Maintain website performance | 1 |
| ICAWEB405A | Monitor traffic and compile website traffic reports | 1 |
| ICAWEB406A | Create website testing procedures | 1 |
| ICAWEB407A | Conduct operational acceptance tests of websites | 1 |
| ICAWEB408A | Ensure basic website security | 1 |
| ICAWEB409A | Develop cascading style sheets | 1 |
| ICAWEB410A | Apply web authoring tool to convert client data for websites | 1 |
| ICAWEB411A | Produce basic client-side script for dynamic web pages | 1 |
| ICAWEB412A | Produce interactive web animation | 1 |
| ICAWEB413A | Optimise search engines | 1 |
| ICAWEB414A | Design simple web page layouts | 1 |
| ICAWEB415A | Produce server-side script for dynamic web pages | 1 |
| ICAWEB416A | Customise content management system | 1 |
| ICAWEB417A | Integrate social web technologies | 1 |
| ICAWEB418A | Use development software and IT tools to build a basic website | 1 |
| ICAWEB419A | Develop guidelines for uploading information to a website | 1 |
| ICAWEB420A | Write content for web pages | 1 |
| ICAWEB421A | Ensure website content meets technical protocols and standards | 1 |
| ICAWEB422A | Ensure website access and useability | 1 |
| ICAWEB423A | Ensure dynamic website security | 1 |
| ICAWEB424A | Evaluate and select a web hosting service | 1 |
| ICAWEB425A | Apply structured query language to extract and manipulate data | 1 |
| ICAWEB429A | Create a markup language document to specification | 1 |
| ICAWEB501A | Build a dynamic website | 1 |
| ICAWEB502A | Create dynamic web pages | 1 |
| ICAWEB503A | Create web-based programs | 1 |
| ICAWEB504A | Build a document using eXtensible markup language | 1 |
| ICAWEB505A | Develop complex web page layouts | 1 |
| ICAWEB506A | Develop complex cascading style sheets | 1 |
| ICAWEB507A | Customise a complex IT content management system | 1 |
| ICAWEB508A | Develop website information architecture | 1 |
| ICAWEB509A | Use site server tools for transaction management | 1 |
| ICAWEB510A | Analyse information and assign meta-tags | 1 |
| ICAWEB511A | Implement quality assurance process for websites | 1 |
| ICAWEB512A | Administer business websites and servers | 1 |
| ICAWEB515A | Implement and use web services | 1 |
| ICAWEB516A | Research and apply emerging web technology trends | 1 |

## Imported Units of Competency within this Training Package

| Unit code | Unit title | Origin | Volume |
| --- | --- | --- | --- |
| BSBCMM101A | Apply basic communication skills | BSB07 Business Services Training Package | 2 |
| BSBCRT401A | Articulate, present and debate ideas | BSB07 Business Services Training Package | 2 |
| BSBCRT501A | Originate and develop concepts | BSB07 Business Services Training Package | 2 |
| BSBEBU401A | Review and maintain a website | BSB07 Business Services Training Package | 2 |
| BSBEBU501A | Investigate and design e-business solutions | BSB07 Business Services Training Package | 2 |
| BSBINN601B | Manage organisational change | BSB07 Business Services Training Package | 2 |
| BSBIPR301A | Comply with organisational requirements for protection and use of intellectual property | BSB07 Business Services Training Package | 2 |
| BSBMGT608C | Manage innovation and continuous improvement | BSB07 Business Services Training Package | 2 |
| BSBPMG517A | Manage project risk | BSB07 Business Services Training Package | 2 |
| BSBREL701A | Develop and cultivate collaborative partnerships and relationships | BSB07 Business Services Training Package | 2 |
| BSBSUS201A | Participate in environmentally sustainable work practices | BSB07 Business Services Training Package | 2 |
| BSBSUS301A | Implement and monitor environmentally sustainable work practices | BSB07 Business Services Training Package | 2 |
| BSBSUS501A | Develop workplace policy and procedures for sustainability | BSB07 Business Services Training Package | 2 |
| BSBWHS201A | Contribute to health and safety of self and others | BSB07 Business Services Training Package | 2 |
| BSBWHS304A | Participate effectively in WHS communication and consultative processes | BSB07 Business Services Training Package | 2 |
| BSBWHS403A | Contribute to implementing and maintaining WHS consultation and participation process | BSB07 Business Services Training Package | 2 |
| BSBWHS501A | Ensure a safe workplace | BSB07 Business Services Training Package | 2 |
| BSBWOR301B | Organise personal work priorities and development | BSB07 Business Services Training Package | 2 |
| BSBWOR404B | Develop work priorities | BSB07 Business Services Training Package | 2 |
| BSBWOR502B | Ensure team effectiveness | BSB07 Business Services Training Package | 2 |
| CPPSEC3009A | Prepare and present evidence in court | CPP07 Property Services Training Package | 2 |
| CPPSEC5003A | Assess security risk management options | CPP07 Property Services Training Package | 2 |
| CPPSEC5004A | Prepare security risk management plan | CPP07 Property Services Training Package | 2 |
| CPPSEC5005A | Implement security risk management plan | CPP07 Property Services Training Package | 2 |
| CPPSEC5006A | Determine strategy for the implementation of biometric technology | CPP07 Property Services Training Package | 2 |
| CPPSEC5007A | Assess biometric system | CPP07 Property Services Training Package | 2 |
| CUFANM301A | Create 2D digital animations | CUF07 Screen and Media Training Package | 2 |
| CUFANM302A | Create 3D digital animations | CUF07 Screen and Media Training Package | 2 |
| CUFANM303A | Create 3D digital models | CUF07 Screen and Media Training Package | 2 |
| CUFANM402A | Create digital visual effects | CUF07 Screen and Media Training Package | 2 |
| CUFCAM201A | Assist with a basic camera shoot | CUF07 Screen and Media Training Package | 2 |
| CUFCAM301A | Shoot material for screen productions | CUF07 Screen and Media Training Package | 2 |
| CUFDIG201A | Maintain interactive content | CUF07 Screen and Media Training Package | 2 |
| CUFDIG301A | Prepare video assets | CUF07 Screen and Media Training Package | 2 |
| CUFDIG302A | Author interactive sequences | CUF07 Screen and Media Training Package | 2 |
| CUFDIG303A | Produce and prepare photo images | CUF07 Screen and Media Training Package | 2 |
| CUFDIG304A | Create visual design components | CUF07 Screen and Media Training Package | 2 |
| CUFDIG401A | Author interactive media | CUF07 Screen and Media Training Package | 2 |
| CUFDIG502A | Design web environments | CUF07 Screen and Media Training Package | 2 |
| CUFDIG503A | Design e-learning resources | CUF07 Screen and Media Training Package | 2 |
| CUFDIG504A | Design games | CUF07 Screen and Media Training Package | 2 |
| CUFDIG507A | Design digital simulations | CUF07 Screen and Media Training Package | 2 |
| CUFPOS201A | Perform basic vision and sound editing | CUF07 Screen and Media Training Package | 2 |
| CUFPOS401A | Edit screen content for fast turnaround | CUF07 Screen and Media Training Package | 2 |
| CUFPOS402A | Manage media assets | CUF07 Screen and Media Training Package | 2 |
| CUFPPM404A | Create storyboards | CUF07 Screen and Media Training Package | 2 |
| CUFSOU204A | Perform basic sound editing | CUF07 Screen and Media Training Package | 2 |
| CUFSOU301A | Prepare audio assets | CUF07 Screen and Media Training Package | 2 |
| CUSSOU302A | Record and mix a basic music demo | CUS09 Music Training Package | 2 |
| CUSSOU403A | Perform advanced sound editing | CUS09 Music Training Package | 2 |
| CUSSOU502A | Produce sound recordings | CUS09 Music Training Package | 2 |
| CUVPHI519A | Investigate and exploit innovative imaging options | CUV11 Visual Arts, Craft and Design Training Package | 2 |
| CUVDRA201A | Develop drawing skills | CUV11 Visual Arts, Craft and Design Training Package | 2 |
| ICPMM321C | Capture a digital image | ICP10 Printing and Graphic Arts Training Package | 2 |
| ICPMM346C | Incorporate video into multimedia presentations | ICP10 Printing and Graphic Arts Training Package | 2 |
| ICTBWN3082A | Perform tests on optical communication system and components | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTBWN3088A | Install optical fibre splitters in fibre distribution hubs | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTBWN3090A | Install lead-in module and cable for fibre to the premises | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTBWN3100A | Work safely with live fibre to test and commission a fibre to the x installation | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTCBL2065A | Splice and terminate optical fibre cable for carriers and service providers | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTCBL2136A | Install, maintain and modify customer premises communications cabling: ACMA Restricted Rule | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTCBL2137A | Install, maintain and modify customer premises communications cabling: ACMA Open Rule | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTCBL2139A | Apply safe technical work practices for cabling registration | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTOPN4116A | Use advanced optical test equipment | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTOPN5119A | Perform acceptance and commissioning tests on optical network | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTOPN5120A | Plan for an optical system upgrade and cut over | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTOPN5122A | Test the performance of specialised optical devices | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTOPN5123A | Analyse and integrate specialised optical devices in the network | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTPMG8143A | Manage a telecommunications project | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTPMG8149A | Evaluate and use telecommunications management networks | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS4183A | Install and test renewable energy system for ICT networks | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS4184A | Install and test power saving hardware | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS4185A | Install and test power management software | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS4186A | Install thin client applications for power over ethernet | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS5187A | Implement server virtualisation for a sustainable ICT system | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS6233A | Integrate sustainability in ICT planning and design projects | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS6234A | Establish a business case for sustainability and competitive advantage in ICT projects | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS7235A | Use ICT to improve sustainability outcomes | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS7236A | Manage improvements in ICT sustainability | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS8237A | Lead applied research in ICT sustainability | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTSUS8238A | Conduct and manage a life cycle assessment for sustainability | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN2140A | Use hand and power tools | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4081A | Locate, diagnose and rectify faults | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4198A | Install, configure and test an internet protocol network | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4199A | Install, configure and test a router | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4202A | Install and test a radio frequency identification system | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4210A | Implement and troubleshoot enterprise routers and switches | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4211A | Design, install and configure an internetwork | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN4213A | Configure and troubleshoot advanced network switching | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5024A | Provide consultancy and technical support in the customer premises equipment sector | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5168A | Design and implement an enterprise voice over internet protocol and a unified communications network | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5200A | Install, configure and test a local area network switch | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5201A | Install, configure and test a server | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5203A | Dimension and design a radio frequency identification system | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5204A | Produce technical solutions from business specifications | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN5217A | Plan a wireless mesh network | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN6172A | Design and configure an IP-MPLS network with virtual private network tunnelling | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN6206A | Produce an ICT network architecture design | ICT10 Integrated Telecommunications Training Package | 2 |
| ICTTEN8195A | Evaluate and apply network security | ICT10 Integrated Telecommunications Training Package | 2 |